APPARATUS AND METHOD FOR REMOVING NOISE IN MOUSE CONTROLLER

Patent Number: KR2001001783
Publication date: 2001-01-05
Inventor(s): LEE SEONG GWON (KR)
Applicant(s): HYUNDAI MICRO ELECTRONICS CO (KR)
Requested Patent: KR2001001783
Application Number: KR19990021217 19990608
Priority Number(s): KR19990021217 19990608
IPC Classification: G06F3/033
EC Classification:
Equivalents:

Abstract of Korean Patent Pub No. KR2001-1783

This invention is relating to a device for clearing noise which is used in a mouse controller. In case any noise takes place in the leading edge and a relay value is smaller than a noise pulse value, a conventional noise reducer fails to clear the noise. Also, in case any noise exists in the trailing edge, a trailing edge noise gets to appear in the output of the end gate so that it fails to clear the noise. This is a problem of the conventional noise reducer.

This invention is made in order to solve the said conventional problem. This invention provides an apparatus and a method, comprising a sampling unit for receiving an input signal and synchronizing it with a clock signal, an edge detector for receiving the output of the said sampling unit and detecting a positive edge or a negative edge, a controller for receiving the output of the said edge detector, generating a control signal to enable or disable the said edge detector according thereto and outputting a noise-reduced signal and an output status unit fro receiving the outputted signal from the said controller. Thereby, this invention has an effect to clear the leading/trailing edge noise entirely. And since it does not use a relay, even in case a noise value is greater than a relay value, irrespective of the width of a noise pulse, it has an effect to clear the noise.

I hereby certify that the above abstract exactly corresponds to the Korean version of Korea Patent as shown in the title.

Translated by Myung Koo KANG of KIM AND CHO International Law Firm.
Date: May 8, 2004

Myung Koo KANG, Senior Patent Attorney
KIM AND CHO